

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051578

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K31/4439 A61P1/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 410 569 B1 (KOHL BERNHARD) 25 June 2002 (2002-06-25) cited in the application example	1-12
X	US 5 693 818 A (VON UNGE SVERKER) 2 December 1997 (1997-12-02) cited in the application example 3	1-4, 11, 12
Y	column 4, line 12 - line 34	5-10
X	US 4 738 974 A (BRAENDSTROEM ARNE E) 19 April 1988 (1988-04-19) examples 1,5	1-4, 11, 12
Y	claims 1,4,5	5-10
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

5 October 2004

Date of mailing of the international search report

14/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Collura, A

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051578

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 94/25028 A (SEPRACOR INC) 10 November 1994 (1994-11-10) cited in the application claims -----	1-10
X	US 6 369 085 B1 (KRONSTROEM ANDERS ET AL) 9 April 2002 (2002-04-09) cited in the application example 4 claims 1,4 -----	1-4,11, 12
X	DE 100 61 137 A (BYK GULDEN LOMBERG CHEM FAB) 20 June 2002 (2002-06-20) cited in the application examples 2,6,8,14,B,E,F, -----	1-7,9, 11,12

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/051578

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  

.Although claim 12 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051578

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6410569	B1	25-06-2002	DE 19843413 C1 30-03-2000
			AT 219074 T 15-06-2002
			AU 761715 B2 05-06-2003
			AU 5515699 A 14-03-2000
			BG 105173 A 30-11-2001
			BR 9914288 A 19-06-2001
			CA 2341031 A1 02-03-2000
			CN 1318065 T 17-10-2001
			CZ 20010621 A3 15-08-2001
			DE 69901840 D1 18-07-2002
			DE 69901840 T2 22-05-2003
			DK 1105386 T3 30-09-2002
			EA 4431 B1 29-04-2004
			EE 200100054 A 17-06-2002
			WO 0010995 A1 02-03-2000
			EP 1105386 A1 13-06-2001
			ES 2178896 T3 01-01-2003
			HK 1037616 A1 25-10-2002
			HR 20010117 A1 28-02-2002
			HU 0103257 A2 28-02-2002
			JP 2002523411 T 30-07-2002
			NO 20010718 A 12-02-2001
			NZ 509761 A 29-08-2003
			PL 345993 A1 14-01-2002
			PT 1105386 T 29-11-2002
			SI 1105386 T1 31-12-2002
			SK 2362001 A3 11-09-2001
			TR 200100287 T2 23-07-2001
			US 2002188008 A1 12-12-2002
			ZA 200100934 A 04-03-2002
US 5693818	A	02-12-1997	AT 197452 T 11-11-2000
			AU 676337 B2 06-03-1997
			AU 6902494 A 20-12-1994
			CA 2139653 A1 08-12-1994
			CA 2337581 A1 08-12-1994
			CN 1110477 A ,B 18-10-1995
			CN 1259346 A ,B 12-07-2000
			CY 2224 A 18-04-2003
			CZ 9500202 A3 18-10-1995
			DE 69426254 D1 14-12-2000
			DE 69426254 T2 07-06-2001
			DE 652872 T1 04-09-1997
			DK 652872 T3 05-03-2001
			EE 3157 B1 15-02-1999
			EP 1020460 A2 19-07-2000
			EP 1020461 A2 19-07-2000
			EP 0652872 A1 17-05-1995
			ES 2099047 T1 16-05-1997
			FI 950377 A 27-01-1995
			GR 97300012 T1 31-05-1997
			GR 3035365 T3 31-05-2001
			HK 1008330 A1 06-07-2001
			HR 940307 A1 31-12-1996
			HU 71888 A2 28-02-1996
			IL 109684 A 23-05-2002
			JP 3549111 B2 04-08-2004
			JP 7509499 T 19-10-1995

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051578

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5693818	A		JP 2004043493 A	12-02-2004
			JP 2004043494 A	12-02-2004
			LT 1941 A ,B	27-12-1994
			LV 11034 A	20-02-1996
			LV 11034 B	20-10-1996
			MA 23210 A1	31-12-1994
			NO 950263 A	24-01-1995
			NZ 266915 A	28-10-1996
			PL 307261 A1	15-05-1995
			PT 652872 T	30-04-2001
			RU 2137766 C1	20-09-1999
			WO 9427988 A1	08-12-1994
			SG 49283 A1	18-05-1998
			SI 9420002 A	31-08-1995
			SK 10195 A3	13-09-1995
			TW 389761 B	11-05-2000
			US 5714504 A	03-02-1998
			US 6143771 A	07-11-2000
			US 5877192 A	02-03-1999
			ZA 9403557 A	11-04-1995
US 4738974	A	19-04-1988	AT 24907 T	15-01-1987
			AU 563842 B2	23-07-1987
			AU 2525784 A	06-09-1984
			BG 44538 A3	15-12-1988
			BG 60837 B2	30-04-1996
			CA 1264751 A1	23-01-1990
			CS 8401515 A2	13-06-1985
			DD 221459 A5	24-04-1985
			DE 3462036 D1	19-02-1987
			DE 10199022 I1	21-06-2001
			DK 99584 A ,B,	05-09-1984
			EP 0124495 A2	07-11-1984
			ES 8500934 A1	01-02-1985
			FI 840851 A ,B,	05-09-1984
			GB 2137616 A ,B	10-10-1984
			GR 79828 A1	31-10-1984
			HK 13590 A	02-03-1990
			HR 930428 B1	30-04-1996
			HU 193557 B	28-10-1987
			IE 57326 B1	29-07-1992
			IL 70985 A	20-10-1987
			JP 1651336 C	30-03-1992
			JP 3013233 B	22-02-1991
			JP 59167587 A	21-09-1984
			KR 8701005 B1	18-05-1987
			LT 2253 R3	15-11-1993
			LU 90677 A9	05-02-2001
			LV 5503 A3	10-03-1994
			LV 5801 A4	20-02-1997
			MA 20050 A1	01-10-1984
			NL 300027 I1	01-02-2001
			NO 840772 A ,B,	05-09-1984
			NZ 207348 A	08-10-1986
			PH 21352 A	15-10-1987
			PL 246492 A1	27-02-1985
			PT 78191 A ,B	01-04-1984
			RO 88721 A1	30-04-1986

# INTERNATIONAL SEARCH REPORT

national Application No  
PCT/EP2004/051578

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4738974	A	SG 1490 G	13-07-1990
		SI 8410397 A8	31-10-1995
		SU 1314953 A3	30-05-1987
		YU 39784 A1	31-12-1986
		ZA 8401202 A	31-10-1984
WO 9425028	A 10-11-1994	AU 6713394 A	21-11-1994
		CA 2161130 A1	10-11-1994
		EP 0700292 A1	13-03-1996
		JP 8509738 T	15-10-1996
		WO 9425028 A1	10-11-1994
		US 2002019420 A1	14-02-2002
US 6369085	B1 09-04-2002	SE 510650 C2	14-06-1999
		AT 239011 T	15-05-2003
		AU 722839 B2	10-08-2000
		AU 7793598 A	30-12-1998
		BR 9809509 A	20-06-2000
		CA 2290963 A1	03-12-1998
		CN 1258295 T	28-06-2000
		DE 69814069 D1	05-06-2003
		DE 69814069 T2	01-04-2004
		DK 984957 T3	30-06-2003
		EE 9900550 A	15-06-2000
		EP 1273581 A1	08-01-2003
		EP 0984957 A1	15-03-2000
		ES 2195345 T3	01-12-2003
		HK 1025962 A1	05-09-2003
		HR 980263 A1	28-02-1999
		HU 0001849 A2	29-05-2002
		ID 29306 A	16-08-2001
		JP 2002501529 T	15-01-2002
		NO 995852 A	31-01-2000
		NZ 500991 A	25-05-2001
		PL 337180 A1	14-08-2000
		PT 984957 T	31-07-2003
		RU 2184115 C2	27-06-2002
		SE 9702065 A	01-12-1998
		WO 9854171 A1	03-12-1998
		SI 984957 T1	31-10-2003
		SK 162599 A3	12-06-2000
		TR 9902934 T2	21-04-2000
		TW 538040 B	21-06-2003
		US 2002198239 A1	26-12-2002
		US 2003004190 A1	02-01-2003
		ZA 9804179 A	30-11-1998
DE 10061137	A 20-06-2002	DE 10061137 A1	20-06-2002